

# SEQUENCE LISTING

<110> Adams, Sean H.  
Goddard, Audrey D.  
Grimaldi, J. Christopher

<120> BFIT Compositions and Methods of Use

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<140> Unknown

<141> 2000-11-27

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<170> PatentIn Ver. 2.1

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<211> 1857

<212> DNA

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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 35 40 45

Met Ser Gln Leu Val Leu Pro Cys His Thr Asn Gln Arg Gly Glu Leu  
 50 55 60

Ser Val Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys Leu Ser  
 65 70 75 80

Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met Asp Asp  
 85 90 95

Ile Tyr Phe Glu His Thr Ile Ser Val Gly Gln Val Val Asn Ile Lys  
 100 105 110

Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly Ile Gln  
 115 120 125

Val Ala Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Asn Val Cys Lys  
 130 135 140

Ala Leu Ala Thr Phe Val Ala Arg Arg Glu Ile Thr Lys Val Lys Leu  
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Lys Gln Ile Thr Pro Arg Thr Glu Glu Glu Lys Met Glu His Ser Val  
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Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr Ile Lys

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Cys Ser Arg Met Val Pro Ala Glu Lys Thr Arg Val Glu Ser Val Glu		
210	215	220
Leu Val Leu Pro Pro His Ala Asn His Gln Gly Asn Thr Phe Gly Gly		
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Gln Ile Met Ala Trp Met Glu Asn Val Ala Thr Ile Ala Ala Ser Arg		
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Leu Cys Arg Ala His Pro Thr Leu Lys Ala Ile Glu Met Phe His Phe		
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Arg Gly Pro Ser Gln Val Gly Asp Arg Leu Val Leu Lys Ala Ile Val		
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Asn Asn Ala Phe Lys His Ser Met Glu Val Gly Val Cys Val Glu Ala		
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Met Thr Phe Val Val Leu Asp Ala Asp Asp Gln Pro Gln Leu Leu Pro		
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Lys Asp Asn Trp Val Leu Ser Ser Glu Ile Ser Gln Val Arg Leu Tyr		
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Thr Leu Glu Asp Asp Lys Phe Leu Ser Phe His Met Glu Met Val Val		
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His Val Asp Ala Ala Gln Ala Phe Leu Leu Leu Ser Asp Leu Arg Gln		

435

440

445

Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln  
450 455 - 460

Val Asp Glu Asp Asp Ala Ile Tyr His Val Thr Ser Pro Ala Leu Gly  
465 470 475 480

Gly His Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys  
485 490 495

Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr  
500 505 510

Leu Pro Thr His Arg Glu Thr Pro Glu Tyr Arg Arg Gly Glu Thr Leu  
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Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Leu Thr Lys Cys  
530 535 540

Cys Trp Val Arg Val Ser Leu Thr Glu Leu Val Ser Ala Ser Gly Phe  
545 550 555 560

Tyr Ser Trp Gly Leu Glu Ser Arg Ser Lys Gly Arg Arg Ser Asp Gly  
565 570 575

Trp Asn Gly Lys Leu Ala Gly Gly His Leu Ser Thr Leu Lys Ala Ile  
580 585 590

Pro Val Ala Lys Ile Asn Ser Arg Phe Gly Tyr Leu Gln Asp Thr  
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&lt;210&gt; 3

&lt;211&gt; 1818

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

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<210> 4

<211> 594

<212> PRT

<213> Homo sapiens

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Ser Ala Met Ala Asp Gly Glu Gly Tyr Arg Asn Pro Thr Glu Val Gln
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Met Ser Gln Leu Val Leu Pro Cys His Thr Asn Gln Arg Gly Glu Leu
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Ser Val Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys Leu Ser
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Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met Asp Asp
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Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly Ile Gln	115	120	125
Val Ala Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Asn Val Cys Lys	130	135	140
Ala Leu Ala Thr Phe Val Ala Arg Arg Glu Ile Thr Lys Val Lys Leu	145	150	155
Lys Gln Ile Thr Pro Arg Thr Glu Glu Glu Lys Met Glu His Ser Val	165	170	175
Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr Ile Lys	180	185	190
Asp Leu Leu Ala Asn Cys Ala Ile Gln Gly Asp Leu Glu Ser Arg Asp	195	200	205
Cys Ser Arg Met Val Pro Ala Glu Lys Thr Arg Val Glu Ser Val Glu	210	215	220
Leu Val Leu Pro Pro His Ala Asn His Gln Gly Asn Thr Phe Gly Gly	225	230	235
Gln Ile Met Ala Trp Met Glu Asn Val Ala Thr Ile Ala Ala Ser Arg	245	250	255
Leu Cys Arg Ala His Pro Thr Leu Lys Ala Ile Glu Met Phe His Phe	260	265	270
Arg Gly Pro Ser Gln Val Gly Asp Arg Leu Val Leu Lys Ala Ile Val	275	280	285
Asn Asn Ala Phe Lys His Ser Met Glu Val Gly Val Cys Val Glu Ala	290	295	300
Tyr Arg Gln Glu Ala Glu Thr His Arg Arg His Ile Asn Ser Ala Phe	305	310	315
Met Thr Phe Val Val Leu Asp Ala Asp Asp Gln Pro Gln Leu Leu Pro	325	330	335
Trp Ile Arg Pro Gln Pro Gly Asp Gly Glu Arg Arg Tyr Arg Glu Ala	340	345	350

Ser Ala Arg Lys Lys Ile Arg Leu Asp Arg Lys Tyr Ile Val Ser Cys  
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Val Tyr Leu Ser Tyr Asn Asn Val Ser Ser Leu Lys Met Leu Val Ala  
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Lys Asp Asn Trp Val Leu Ser Ser Glu Ile Ser Gln Val Arg Leu Tyr  
 405 410 415

Thr Leu Glu Asp Asp Lys Phe Leu Ser Phe His Met Glu Met Val Val  
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His Val Asp Ala Ala Gln Ala Phe Leu Leu Leu Ser Asp Leu Arg Gln  
 435 440 445

Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln  
 450 455 460

Val Asp Glu Asp Asp Ala Ile Tyr His Val Thr Ser Pro Ala Leu Gly  
 465 470 475 480

Gly His Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys  
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Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr  
 500 505 510

Leu Pro Thr His Arg Glu Thr Pro Glu Tyr Arg Arg Gly Glu Thr Leu  
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Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Leu Thr Lys Val  
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Ser Tyr Tyr Asn Gln Ala Thr Pro Gly Val Leu Asn Tyr Val Thr Thr  
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Asn Val Ala Gly Leu Ser Ser Glu Phe Tyr Thr Thr Phe Lys Ala Cys  
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Thr Leu

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 <213> Mus musculus

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<211> 594

<212> PRT

<213> Mus musculus

<400> 6

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 20 25 30

Asp Pro Pro Thr Met Ala Glu Gly Glu Gly Tyr Arg Asn Pro Thr Glu  
 35 40 45

Val Gln Met Ser Gln Leu Val Leu Pro Cys His Thr Asn His Arg Gly  
 50 55 60

Glu Leu Ser Ile Gly Gln Leu Leu Lys Trp Ile Asp Thr Thr Ala Cys  
 65 70 75 80

Leu Ser Ala Glu Arg His Ala Gly Cys Pro Cys Val Thr Ala Ser Met  
 85 90 95

Asp Asp Ile Tyr Phe Asp His Thr Ile Ser Val Gly Gln Val Val Asn  
 100 105 110

Ile Lys Ala Lys Val Asn Arg Ala Phe Asn Ser Ser Met Glu Val Gly  
 115 120 125

Ile Gln Val Val Ser Glu Asp Leu Cys Ser Glu Lys Gln Trp Ser Val  
 130 135 140

Cys Lys Ala Leu Ala Thr Phe Val Ala His Arg Glu Leu Ser Lys Val  
 145 150 155 160

Lys Leu Lys Gln Val Ile Pro Leu Thr Glu Glu Glu Lys Thr Glu His  
 165 170 175

Gly Val Ala Ala Glu Arg Arg Arg Met Arg Leu Val Tyr Ala Asp Thr  
 180 185 190



Arg Pro Glu Trp Asp Lys His Tyr Arg Ser Val Glu Leu Val Gln Gln  
 450 455 460

Val Asp Glu Asp Asp Ala Ile Tyr His Val Ile Ser Pro Ala Leu Ser  
 465 470 475 480

Gly Asn Thr Lys Pro Gln Asp Phe Val Ile Leu Ala Ser Arg Arg Lys  
 485 490 495

Pro Cys Asp Asn Gly Asp Pro Tyr Val Ile Ala Leu Arg Ser Val Thr  
 500 505 510

Leu Pro Thr His His Glu Thr Pro Glu Tyr Gln Arg Gly Glu Thr Leu  
 515 520 525

Cys Ser Gly Phe Cys Leu Trp Arg Glu Gly Asp Gln Met Thr Lys Val  
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Ser Tyr Tyr Asn Gln Ala Thr Pro Gly Phe Leu Asn Tyr Val Thr Thr  
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Asn Val Ser Gly Leu Ser Ser Glu Phe Tyr Asn Thr Phe Lys Ala Cys  
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Thr Leu

<210> 7

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Mouse BFIT  
 forward primer

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<210> 8

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<223> Description of Artificial Sequence: Mouse BFIT probe

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<223> Description of Artificial Sequence: Mouse BFIT reverse primer

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<210> 10

<211> 20

<212> DNA

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<223> Description of Artificial Sequence: Human BFIT1 forward primer

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<223> Description of Artificial Sequence: Human BFIT2  
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<223> Description of Artificial Sequence: Mouse BFIT  
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<223> Description of Artificial Sequence: AB014607  
forward primer

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<223> Description of Artificial Sequence: AB014607  
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<223> Description of Artificial Sequence: Inverse PCR  
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<223> Description of Artificial Sequence: Inverse PCR  
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<210> 23

